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Page 17. en la colomne de Mercure pour le degré 121. lifez 33676.

Page 18. en la colomne de Saturne pour le degré 171. lifez 91819.

Page 18 en la colomne de l'Année 2, de pour le degré 170. de l'Anomalie, lifez 31. fecon des.

Page 22 en la colomne de l'année 20, de pour le degré 120. de l'Anomalie, lifez 31. minutes.

Page st. en la colomne des liziendes, pour la ville de Bruxelles, lifez 50. 41.

Page 38, en la colomne des latitudes . lifez pour 5, Samueur ts. M. 47. & pour Toloufe 41.

Page 36 en la colomne des paralanes du Soleil: pour le Signe 4, & pour le Signe s. lifez 32 306. Page 41. pour l'année 19. lifes 29. 7. 17. pour 29. 20. 12. Page 41. en la marge dekree de la Tablerte de la reduction de la Lune lifez 6. pour 16. Se

17. pour 7

Page 41, en la colomne du Soleil, pour le degré 138, de l'Anamaije, lifex 25. facondes,

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## Longitude not found:

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## ANSWER

TOA

### TREATISE,

Written

By Henry Bond Senior, shewing a way to find the LONGITUDE

BY THE

Magnetical Inclinatory NEEDLE.

WHEREIN

Is proved, That the LONGITUDE is not, nor cannot be found by the Magnetical Inclinatory NEEDLE.

By Peter Blackborrow, Gent.

Licensed March 14. 167 2. Ro. L'Estrange.

LONDON,

Printed for Robert Harford, at the Sign of the Angel in Cornhil, near the Royal Exchange. 1678.

Entlid Speidell pret 2/8

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# PREFACE.

Bond's Book, I was in good hope to have found the Work answerable to the Title, the Author being reputed (not without desert) skilful in Mathematical Learning: Eut when I found his Ductrine want Demonstration, (an Excellency in the Mathematicks above all other Sciences Inseparable, for what is Truth therein, may always be demonstrated to be so I began to doubt that (instead of so useful a Discourse, as he pretended to he might not only be deceived himself, but might also missead others in the search thereof.

This made me take upon me the Exami-

#### The Preface.

nation of the Work, which I profess to have done with that care and integrity, which is necessary in such an Undertaking: And I do unseignedly declare, that I am sorry (for the Authors sake) to find his Propositions unsound, and his Examples incertain. But let Truth he always True, the whole Foundation of his Work is only an Airy Imagination, and the Superstructure is made up of false Suppositions, and impossible Conclusions.

A short Prospect whereof I have inserted here (for instant sake) from his own Examples, leaving the fuller Demonstration there-

of to the ensuing Treatife.

First, the Author pretends, that the Magnetical Poles are distant from the Poles of the Earth, by an Oblique Angle; which Angle is proved to be a false supposition, and cannot be demonstrated upon the Globe. But if it should be granted him, that the Magnetick Pole were 8 d. 30 m. from the Pole of the Earth, in the year 1580, then it is proved that the Magnetical Poles are found to be so by the Variation that was at Vaygats, and London in the year 1580. So that the Magnetical Pole must be as various as the Variation that was at the Variation that was at the Variation that was at the Magnetical Pole must be as various as the Variation that was at the Variation the Variation that was at t

tion; in regard it cannot be found without it. Then the Caroline Table being Calculated by the distance of the Magnetical Poles, from the Poles of the Earth, is useless, in regard it is proved, that the Magnetick Pole is as various as the Variation.

And in the next place the Author pretends to find, that the Magnetical Pole of the Meridian of London, is gone to the Eastwards from his Observation made at Ballasore; and here he produceth the Longitude by the Practical Part of the Mathematicks at Sea by Journal, to correct his Observations by the Inclinatory Needle. Mr. Bond begs the Question: Let the Angle WPN be 6 d. oo m, that the Magnetical Meridian is gone to the Eastward, when it is proved to be 37 d. 59 m.

So likewise in the case of Cape Charles, and in the Straits of Magellan (and all places Westwards of the Meridian of the Lizard.)

Mr. Bond begs the Question: Let SKPF represent the Meridian of the Lizard, which is 4 d. 12 m. to the Eastwards of the Magnetical Colure, as appears by his Demonstration, which Angle at Cape Charles, is found.

to be above 50 d. and not 4 d. 12 m. and the Angle at the Straits at Magellan, is found to be above 38 d. 00 m. and not 4 d. 12 m. "I have omited to put down Mr. Bond's Demonstration to prove his Errors, in regard it would produce many Cuts: but those that would be better satisfied, may take the same Method I used in the Case of Ballasorc, where Mr. Bond says let the Angle WP N be 6 d. that the Magnetick Pole is gone from the Meridian of London; when the Angle is proved to be 37 d. 59 m.

And farther it is proved, where two places differing in Latitude, under one and the same Meridian of the Earth, that the Angle at the Pole doth alter, whereas all places, under one and the same Meridian,

bave one and the same Longitude.

And whereas Mr. Bond has altered the Meridian of the Azores, and has made London the Meridian, from whence Longitude shall begin at: Longitude oo d. oo m. It is proved from Mr. Bond's own Observation, that London should have Longitude. Then the Magnetical Inclinatory Needle is not in proportion to the Meridian of London, or

any cortain Meridian of the Earth.

And last of all, the Author supposeth the Magnetical Poles in the Air, Some Small distance from the Earth, which (as be fays) may be a great resson of the Motion of the Earth, and to that end, be bas drawn his Spheres accordingly: But I have proved that Mr. Bond's Question between Ballasore and London, is to be demonstrated from the Globe of the Earth: So that all Questions that bave the like Matter, have the like Demonstration: then why should we fancy the Magnetick Poles in the Air?

And farther I have added a small Treatise, proving by several Observations, and Demonstrations, that the Earth is the Center of the Starry Heaven; and that it has no Motion upon its Axis; and for any one to pretend the Earth to have a Motion from West to East, it is only imagination; for there is no Observation to prove it. I know there are many men of a contrary opinion; but I would have such men to produce Observation and Demonstration to prove the contrary.

I shall fay no more in this place, but refer

to the Work it felf; where if I have also erred, I shall gladly receive admonition from the Learned; but if I have not, I hope my Native Country will not take it unkindly, that I have discovered a dangerous Error, which (if followed, and relyed upon) would have been of fatal Consequence. merille, Bord's Speffied between Ballatine

Peter Blackborrow.

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## LONGITUDE

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## Inclinatory Needle.

In Answer to Mr. Bonds first Question, in finding the Distance between London and Vaygats; and from thence to find the Distance of the Magnetical Pole, from the Pole of the Earth.

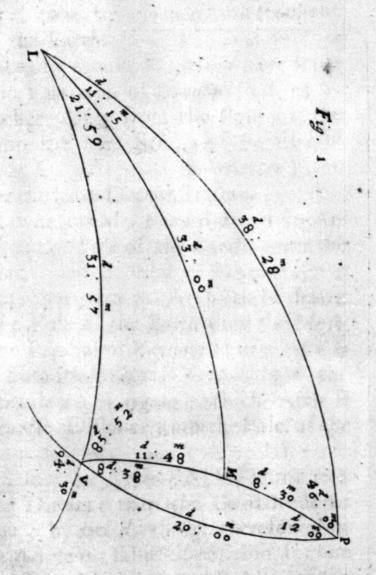
Ondon Latitude 51 d. 32 m. North,
London Longitude 00 d. 00 m.
Vaygats Latitude 70 d. 00 m.
North, Longitude 58 d. 00 m.
Westwards of the Meridian of London,
to find the Distance between London and
Vaygats L V, and the Angle P L V, and the
Angle P V L. In this Triangle we have
P L, the Co-latitude of London 38 d. 28 m.
and P V, the Co-latitude of Vaygats 20 d.
B Com.

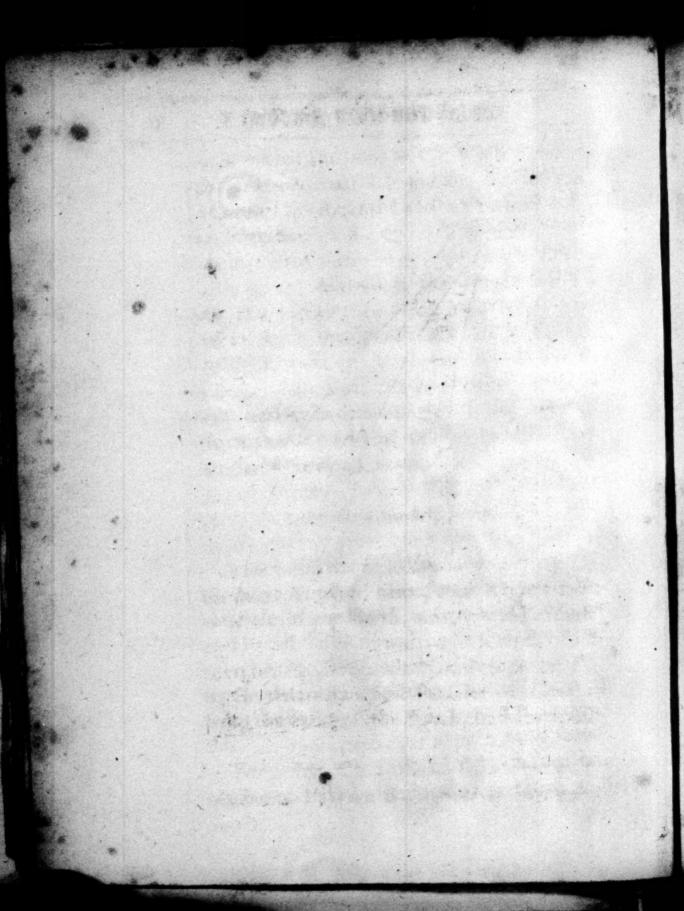
oo m. And the Angle LPV 58 d. oo m. the difference of Longitude by Journal between Vaygats and London; to find LV, the Distance 31 d. 57 m. and the Angle PLV, 33 d. 14 m. and the Angle PVL 94 d. 30 m. And from the Angle LPV, Mr. Bond draws an Arch as PMV, and makes that an Angle of 8 d 28 m & the Angle P, W, L, an Angle of 85 d. 52 m. and then Mr. Bond draws another Arch as L M, and makes the Angle P L M, an Angle of it d. 15 m. and the Angle M L V, an Angle of 21 d. 59 m.

Here place the first Figure.

If Mr. Bond would make it a proportion in his Angle to draw two Arches from the Pole of the Earth, unto the Meridian, and Parallel of Vayguts; as P V, and P M V, then he should have drawn another Arch into the Meridian and Parallel of London; from the Pole of the Earth, besides that of

For as Mr. Bond would separate the Vaviation of Vaygute 8 d. 38 m. from the An-





gle PVL 94 d. 30 m. and make the Angle PMV, 8 d. 38 m. and the Angles PM, V, L85 d. 52 m. by another Arch from the Pole of the Earth.

So likewise should Mr. Bond have separated the Variation of London 11 d. 15 m. by another Arch from the Pole of the Earth into the Meridian, and Parallel of London at L, in regard the matter given

requires the same Demonstration.

And whereas Mr. Bond draws two Arches from the Pole of the Earth, unto the Meridian, and Parallel of Vaygats; it is very improper, for no Archean be drawn from the Pole of the Earth unto the Meridian, and Parallel of Vaygats; but what was drawn from the Pole, as PV 20 d. 00 m. the Co-latitude of Vaygats, which Arch is the nearest Distance unto the Pole of the Earth.

And for the Arch PMV, it makes a greater Distance than the Co-latitude of Vaygats, by oo d. 18 m. therefore Mr. Bonds Angle is a false Supposition, for one and the same Meridian and Parallel of the Earth, can have but one Arch or Meridian

from the Pole of the Earth, and that is the nearest Distance.

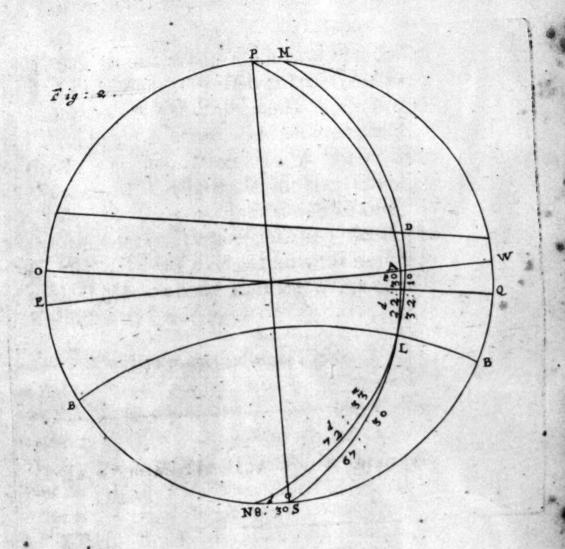
But Mr. Bonds pretence is to find the Distance of the Magnetical Poles, from the Pole of the Earth; and he saith, in the year 1580, the Variation was 11 d. 15 m. at London, and at Vaygats 8 d. 38 m. and the Co-latitude at London 38 d. 28 m. and the Co-latitude at Vaygats 20 d. 00 m. and the Disserence of Longitude 58 d. 00 m. So from hence it may be observed, that the Distance of the Magnetical Pole, from the Pole of the Earth, is found, from the Variation that was at London, and Vaygats in the year 1580. So that the Magnetick Pole must be as various as the Variation, in regard it cannot be found without it.

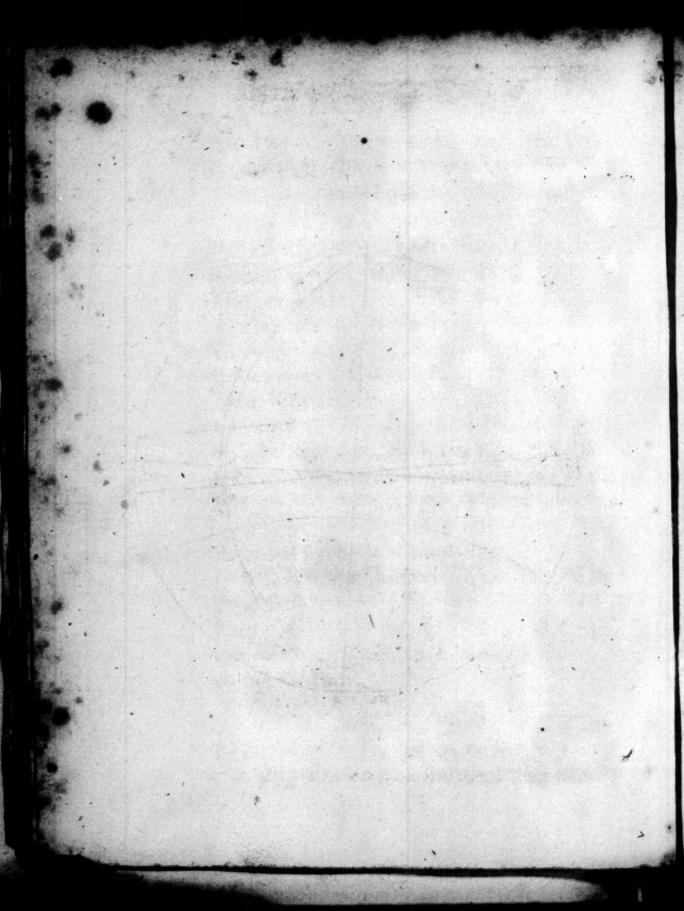
Mr. Bond had better to have begg'd the Question, let the Magnetical Poles be Diffant 8 d. 30 m. from the Pole of the Earth: For his Angle cannot be demonstrated upon the Globe.

South Angleica hills Suran

on the Globe. The Bank consider the Nagara

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In Answer unto Mr. Bonds Question, be-

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London South-West-wards of Good-hope, and then North-East-wards into North Latitude 22 d. 30 m. the Magnetical Latitude or Inclination 32 d. 10 m. the Magnetical Co-latitude in the Caroline Table 72 d. 33 m. and the Distance of the Magnetical Pole from the Pole of the Earth 8 d. 30 m. I demand how far the Magnetical Meridian is East or West of the Meridian of London?

Here place the second Figure:

To Demonstrate this Sphere upon the Globe: and to obmitted and Administration which the

ndi Markian is gone from the Brata

The Brass Meridian, in which the Globe moves, is the Meridian of London; so bring any Meridian upon the Globe

Globe to the Brass Meridian; and from the Poles make a Mark upon the Meridian of the Globe, just under 8 d. 30 m. of the Brass Meridian, for the Magnetick Pole. So take 72 d. 33 m. the Magnetick Pole Distant from the Parallel of 22 d. 30 m. No Latitude from the Equator; and fix one point of your Compasses in the Magnetical. Pole 8 d. 30 m. turning the Globe Fastwards, until 72 d. 33 m. will cut in the Parallel of Ballasore 22 d. 30 m. just under the Brass Meridian of the Globe, so make a Mark, and let the Globe stand, then is L N the Magnetick Pole Distant from the Meridian of London 72 d. 33 m. and L S is the Co-latitude of Ballafore 67 d. 30 m. and NS is the Distance of the Magnetical Pole, from the Pole of the Earth 8 d. 30 m. and the Angle LSN, is what the Magnetick Meridian is gone from the Brass Meridian, or the Meridian of London, and I D is the Magnetick Latitude 32 d. 10 m. and LA is the Latitude of Ballafore 22 d. Wille Brais Meridian, in whichmore

By this Demonstration you may see the Distance of the Magnetick Poles, and the Mag-

Magnetick Co-latitude, and the Co-latitude of the Place will hold their Demonstrations in Proportion to the Poles of the Earth; then why should we fancy the Magnetick Poles in the Air?

Upon the Sphere M, Q, N, O is the Meridian of the Magnetick Poles, and QO is the Magnetick Equator, and E Wis the Equator to the Poles of the Earth, and ML N is the Magnetick Meridian, croffing the Brass Meridian, or the Meridian of London, in the Parallel of 22d. 20 m. So is SN the Magnetick Pole Diftant from the Poles of the Earth, and LS is the Co-latitude of Ballasore, and NL is the Magnetick Pole Distant from the Meridian of London 72 d. 33 m. in the Parallel of 22 d. 30 m. and SLP is the Meridian of London, and not the Meridian of Ballasore, yet I place L in the Parallel of Ballafore, in the Meridian of London, in segard4 did take the Inclination of the Inclinatory Needle in that Parallel.

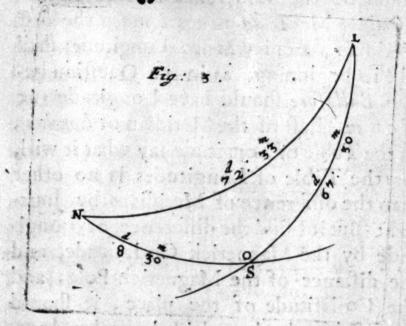
Difference of Longitude from London; I have Sailed into upknown Parts, and observe

ferve and find my Latitude, and my Magnetick Latitude; and now I would find how far I am East or West of the Meridian of London: So lought not to say SLP, is the Meridian of Ballasore, in regard I am to find it; but to make SLP the Meridian of London, from whence I came; so the Magnetick Co-latitude will be in proportion to what the Magnetick Meridian I am in, is from the Meridian of London.

So is LS the Co-latitude of Ballafore 67 d. 30 m. in the Meridian of London; and SN, the Distance of the Magnetick Pole, stom the Pole of the Earth 8 d. 30 m. And LN is the Magnetick Co-latitude 72 d. 33 m. Now the Angle at the Pole NSL, will be found 125 d. 00 m. that the Magnetick Meridian of Ballafore is, from the Meridian of London Eastwards, which should be the Magnetick Meridian of Ballafore at B, from the Meridian of London L, the complement of 125 d. 00 m. out of 180 d. is the Angle A SW 55 d. 00 m. that the Magnetick Meridian is West of the Meridian of London.

The

# The Angle is drawn from the Sphere: the Work follows.



List nako pad erder ed	d. m.
LN,	, 72 33 .
NS, the refiduum Sine	08 30 083029
SL, the residuum Sine	67 30 003438
The Sum of the fides	£48 33
The half Sum	74.16
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The Sine of the second differen	ence 6 46 907124
The Sum	1989584
The half Sum	994792
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994793

994792 the fine thereof is 62 d. 30 m. the double thereof is, 125 d. 00 m. the Angle at the Pole of the Earth NSL, which should be the Difference of Longitude: But fince Mr. Bond makes London the first Meridian, from whence Longitude shall take its beginning, as in the Question before, Ballafore should have Longitude 125 d. 00 m. East of the Meridian of London; let the Table of Longitude say what it will, for the Table of Longitudes is no other than the difference of Meridians by Journal: But if I find the difference of Longitude by the Magnetick Co-latitude, and the distance of the Magnetick Pole, and the Co-latitude of the place, it should correct what has been laid down by Journal; for I do not take what has been laid down by Journal to be true, in regard there is no certain Observation to lead us to it : For if London be not the Meridian, from whence the Magnetick Co-latitude takes its beginning towards the Magnetick. Poles: then the diffrance of the Magnetick Meridian from the Meridian of London, cannot give the difference of Meridians.

Mr. Bonds way to prove what the Magnetick Meridian is gone to the Eastwards, is thus: First, he knows his Magnetick Co-latitude at Ballafore, and the Co-latitude of the place, and the distance of the Magnetick Pole; and fo finds the distance of the Magnetick Meridian, from the Meridian of London 125 d. 00 m. fo then finding 125 d. oo m. doth not answer the Longitude by Journal; he proceeds to find what the Magnetick Meridian is gone to the Eastwards : thus, he gives the Co-laritude, and the distance of the Magnetick Pole, and the Longitude by Journal 119 de 12 m. and to this he adds 6 d. which makes 125 d. 12 m. the distance of the Magnetick Meridian, to find the Magnetick Co-latitude: This is but turning the Question.

by Journal 119 d. 12 m. before you can find what the Magnetick Meridian is gone to

the Eastwards.

Mr. Bonds way is thus: Substract 119 d.
12 m. the Langitude by Journal, from
125 d. 12 m. the distance of the Magne-

tick Meridian, from the Meridian of London, and you have 6 d. oo m. that the Magnetick Meridian is gone to the Eastwards: So by this Mr. Bond produced the Longitude by Journal, to correct the distance of the Magnetick Meridian, from the Meridian of London.

Mr. Bond must know that Longitude by Journal in all the World is laid down by Judgement; and then how rare is it for any one man, who hath been at any one Port in the World, somewhat remote, that hath found it in the very same Meridian, in regard of the many accidents that attend the Practical part of the Mathematicks at Sea?

And then how is it possible to know the Longitude 1 am in, by the distance of the Magnetick Meridian? If I must first know the Longitude by Journal, which I cannot prove to be certain, and so correct the Observation by it, so that by this way of practice, the Inclinatory Needle is of no use; for the Magnetick Latitude, with the other proportions before, should give the Longitude without the help

of a Journal to correct his Observa-

The next thing we are further to consider of is, how Mr. Bond finds what the Magnetick Meridian is gone to the Eastwards of Ballasore.

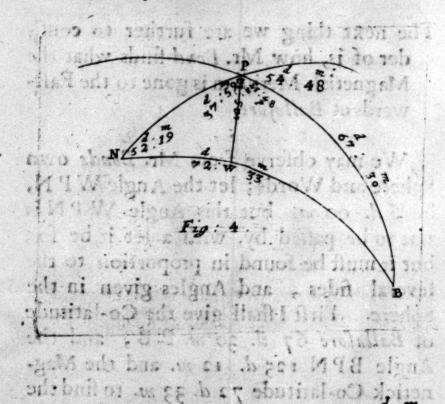
We may observe from Mr. Bonds own Sphere and Words; let the Angle WPN, be 6 d. 00 m. but this Angle WPN is not to be passed by, with a let it be so; but it must be found in proportion to the several sides, and Angles given in the sphere. First I shall give the Co-latitude of Bellesore 67 d. 30 m. PB, and the Angle BPN 125 d. 12 m. and the Magnetick Co-latitude 72 d. 33 m. to sind the Angle PNB.

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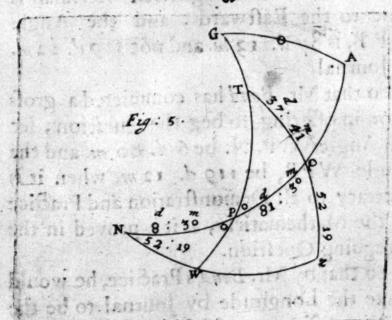


As the Sine of the fide NB, 997953 - 72 33 Is to the Sine of the Angle NPB, 991229 - 54 48 So is the Sine of the Side PB, 996561 - 67 30 To the Sine of the Angle PNB, 989837 - 52 19

So the Angle P N B, is found to be 52 d. 19 m.

Now let fall the Perpendicular in the foregoing Angle, as P. W; so with the Angle W. N. P. 5.2 d. 19 m. and the side P. N. 8 d. 30 m. we are to find the Angle W. P. N., which Mr. Bond saith, let it be 6 d. 00 m.

## The Work follows.



As the Sine of PQ, 81 30 — 999529 Is to the Tangent of QT, 37 41 — 988785 So is the Radius PA, 90 do — 1000000 To the Tangent of A.g. 37 59 — 989265

So that A. g. 37 d. 59 m, is equal to the Angle A. P. g. or to the Angle W. P. N., 37 d. 49 m. de-

clinatory

Now.

Now in the foregoing Angle, substract the Angle WPN, 37 d.59 m. out of the Angle NPB 125 d. 12 m. and you have

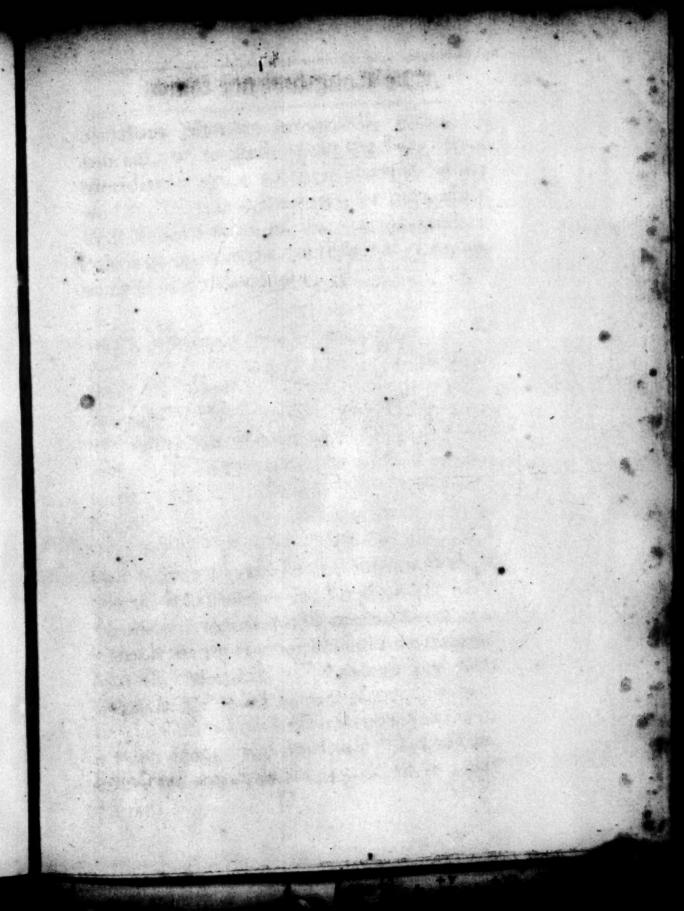
the Angle W PB, 87 d. 13 m.

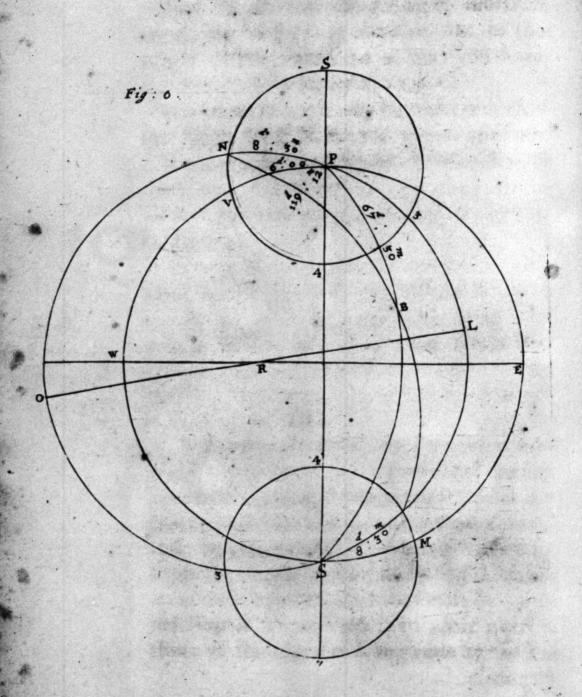
And from hence it may be observed, that the Angle W P N, is 37 d. 59 m. and not 6 d. 00 m. that the Magnetick Meridian is gone to the Eastward, and the Angle W P B, is 87 d. 13 m. and not 119 d. 12 m. by Journal.

So that Mr. Bond has committed a gross error in offering to beg the Question; let the Angle W. P. N. be 6 d. oo m. and the Angle WPB, be 119 d. 12 m. when it is contrary to all Demonstration and Practice in the Mathematicks, as it is proved in the

foregoing Question.

So that by Mr. Bond's Practice, he would make the Longitude by Journal to be the certain difference of Meridians, since he corrects his Observation, from the Longitude by Journal, by substracting 6 d. 00 m. from the Angle at the Pole 125 d. 12 m. to make it equal to the Longitude by Journal 119 d. 12 m. and then what need is there of finding the Longitude by the Inclinatory





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Journal, or to find what the Magnetick Meridian is gone to the Eastwards, when we have it by imagination; let the Angle WPN be 6 d. 00 m. that the Magnetick Pole is gone from the Meridian of London, when it is 37 d. 59 m.

The Sphere on the other side, is according to Mr. Bonds own Demonstration, to prove the foregoing Work.

Here place the Sixth Figure.

And before I proceed any further, I shall make one Observation between the Meridian of London and Bourdeaux. Bourdeaux being but 20 Minutes Fastwards of the Meridian of London: See Mr. Bonds Tables of Longitude.

The Magnetical Latitude 69 d, 26 m.

Bourdeaux Latitude N° 45 d. 10 m. the

Mag-

Magnetick Co-latitude 36 d. 54 m. the diftance of the Magnetick Pole, from the Pole of the Earth 8 d. 30 m. to find the Angle of the Pole of the Earth.

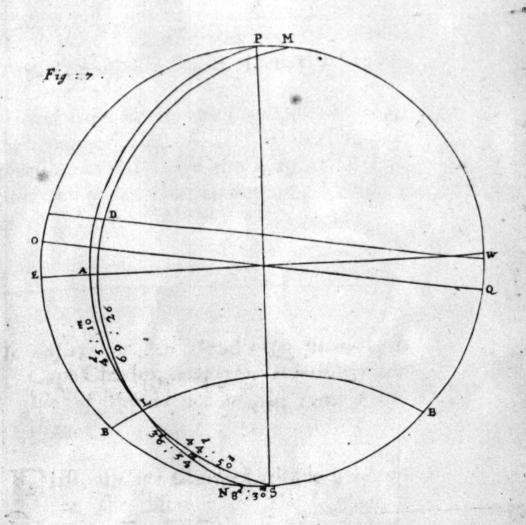
calabeld odore

The Demonstration of this Sphere upon the Globe, is according to my former.

#### Here place the feventh Figure.

in the second desired	d.	m.	
NL,	36	54	
S N, the residuum Sine		The State of the last	083029.
LS, the residuum Sine	44	50	015178
The Sum of the Sides	90	14	and bar
The half Sum of the Sides	45	07	
The Sine of the first Difference	36	37	977558
The Sine of the fecond Difference	00	17	769417
The Sum			1845182
The Sine of the half Surt	09	41	922591

Which 9 d. 41 m. being doubled, you have 19 d. 22 m. for the Angle at the Pole





of the Earth, then substract 6 d. from it, as in the case of Ballasore, Bourdeaux being Eastward of the Meridian of London, and you have 13 d. 22 m. for the difference of Longitude, between London and Bourdeaux, which is 13 d. 00 m. more than the truth by Journal. See in Mr. Bonds Tables of Longitude.

And from hence you may observe, that the Magnetical Needle, or Inclinatory Needle, cannot give the Magnetical Latitude in proportion to any one Meridian of the Earth.

ent confiction with the same

In Answer to Mr. Bond's Question, upon Cape Charles, comparing it with the new Isle of Providence in the same Meridian.

Irst, of Cape Charles Latitude 37 d. 39 m. the distance of the Magnetick Pole, from the Pole of the Earth 8 d. 30 m. the Magnetick Co-latitude 49 d. 18 m.

to find how far the Magnetick Meridians are East and West of the Meridian of London.

The Demonstration of this Question upon the Globe, is the same way as in the first Question.

Here place the eighth Figure.

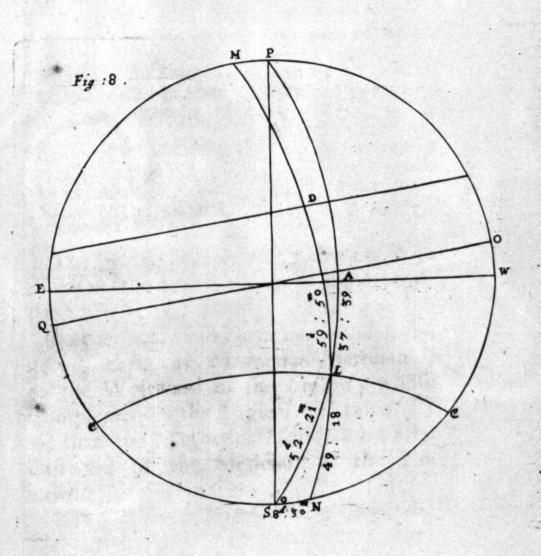
MQNO, is the Meridian of the Magnetick Pole, and SN is the distance of the Magnetick Pole, from the Pole of the Earth 8 d. 20 m. and L S, is the Co-latitude, 52 d. 21 m. And L N is the Magnetick Co-latitude 49 d. 18 m.

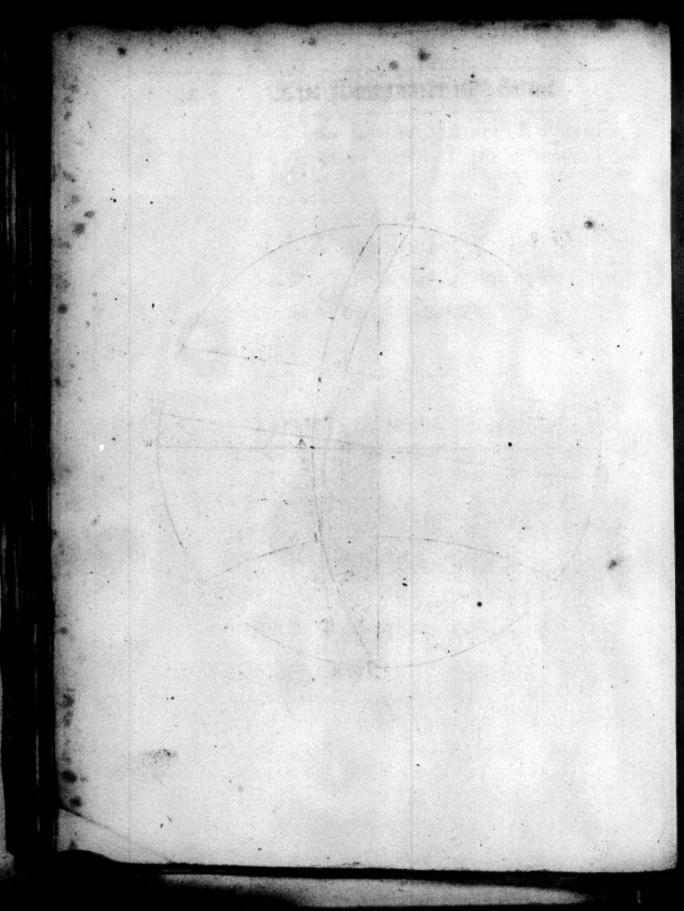
The Work follows.

Hills, of Cape Charles Laricude as al. 20

m. the Magnetick Co-linkede 49 d. 18 m.

deingagel ode de locachib ode en Nil,





NL, SN, the residuum Sine of LS the residuum Sine of	d. m. 49 18 08 30 083029 52 21 010140
The Sum of the Sides The Sine of the half Sum The side opposite to the Angle, subst	110 09 055 04; 991371
The Sine of the Difference	05 46 900206
The Sum of all. The Sine of the half Sum	1984746 57 02 992373

The Complement of 57 d. 02 m. is 32 d. 58 m. the double thereof is 65 d. 56 m.

the Angle NSL.

So the Angle LSN, being found 65 d. 56 m. that the Magnetick Meridian is to the Westward of the Lizard, whose Complement is the Angle LSC 114d. 04 m. that the Magnetick Meridian is to the Eastward of the Meridian of the Lizard.

But I observe the Co-latitude of the Magnetick Pole in its proportions, does not make out the Longitude in Mr. Bonds Tables to the Meridian of London by 04 d! 4 m. But, I suppose, Mr. Bond did make choice

choice of the Meridian of the Lizard to be the Meridian in propotion to the Magnetical Co-latitude at Cape Charles, in regard the Magnetical Co-latitude at Cape Charles, would not give the Magnetical Meridian in proportion to the Meridian of London. And here we are to observe if the Magnetical Co-latitude, with the other proportions, in one and the fee Meridian of the Earth, will not give the fame Angle at the Pole in all Parallels, that cross that Meridian, then the Inclinatry Needle cannot perform the Work of finding the Longitude, in regard you cannot tell where to find the Magnetical Meridian, in proportion to any one Meridian of the Earth.

Now we are to prove, that the Angle at the Pole does alter in one and the same Meridian of the Earth, from Mr. Bonds Observations by the Inclinatory Needle, when according to truth every Meridian keeps its Longitude from the Poles in all Parallel.

Cape Charles, and the New Island of Providence, are both under one and the same Meridian. See Mr. Bonds Tables of Longitude 70 d. 00 m. Westward of the Meridian of London.

Now suppose I was at the new Island of Providence, and should observe and find it in the Latitude of 25 d. 25 m. N°. and should find the inclination of the Inclinatory Needle 48 d. 39 m. and in the Caroline Table, the Magnetick Co-latitude 60 d. 24 m. and the Magnetick Pole distant from the Pole of the Earth 8 d. 30 m. to find the Angle at the Pole of the Earth L S N.

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Figure 9.

LSN.

Fy.9	. 4/8
The best of the control of the contr	
\$ 8:5	
Shipping of distribution	d
LN,	60 24
S L, the residuum Sine of NS, the residuum Sine of	08 30 083029
The Sum of the Sides	7000
The Sine of the half Sum	133 29 66 44: 996316
The Side opposite to the Angle, sub	Atract 60 24
The Sine of the difference	06 20; 904264
The Sum	1988028
The Sine of the half Sum	60 36 994014
The Complement of	ind 26 m is 20
d. 24 m. the double ther	cof is = 8 d .8
for the Angle at the Po	
I CN	or of the Earth

Now

Now substract 58 d. 48 m. the Angle at the Pole, that the Magnetick Meridian of New Providence makes with the Meridian of the Lizard, from 65 d. 56 m. the Angle at the Pole, that the Magnetical Meridian of Cape Charles, makes with the Meridian of the Lizard, and you have o7 d. 08 m. that the Magnetical Meridians or Angles at the Pole do differ in the same Meridian of Cape Charles, when according to truth every Meridian keeps its Longitude from the Poles of the Earth in all Parallels.

So that the Magnetical Co-latitude under one and the same Meridian of the Earth, doth alter the Angles at the Pole, and then the Magnetick Co-latitude, under one and the same Meridian of the Earth, is not in proportion to the Meridian of the Lizard, or any certain Meridian of the Earth. the different of the Magnetick

Another linged. I was at stufferstow, and

Boald oblerve and find it in the Lagrands

iron the Pole of the Earth.

Another Observation between London and Amsterdam, comparing it with Antwerp, being in the same Meridian of Amsterdam. See Mr. Bonds Tables of Longitude 4 d. 37 m. Eastward of the Meridian of London.

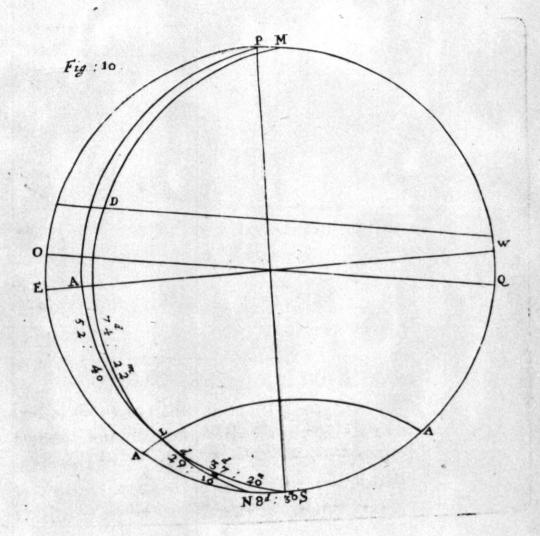
Nov histract 18 d. 48 m the Angle

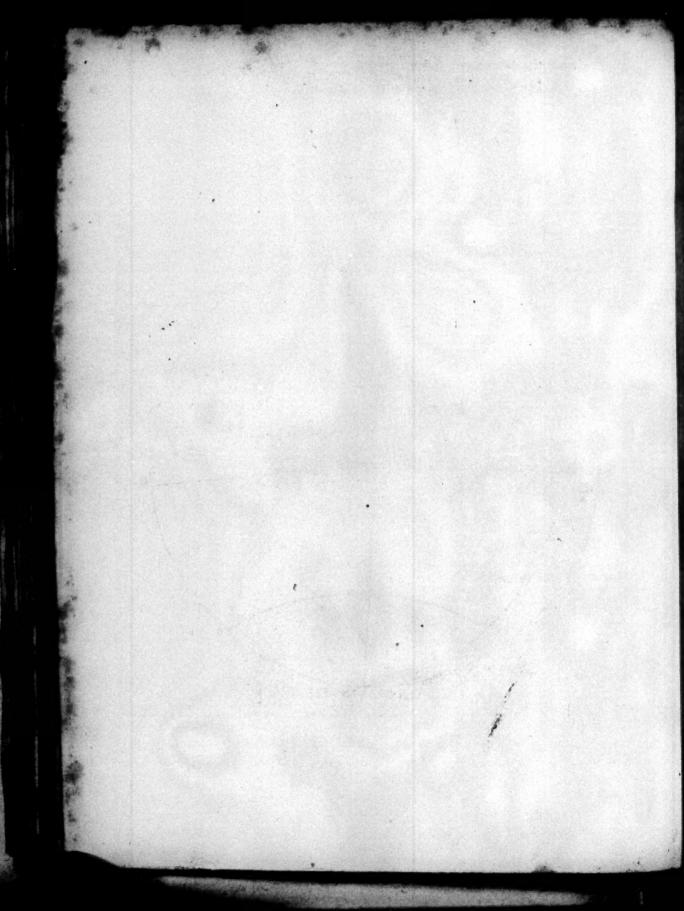
A Msterdam Latitude 52 d. 40 m. the Magnetick Latitude 74 d. 22 m. and in the Caroline Table the Magnetick Colatitude is 29 d. 16 m. and the distance of the Magnetick Pole, from the Pole of the Earth 8 d. 30 m. to find the Angle of the Pole of the Pole of the Earth.

Here place the tenth Figure.

NL, the Magnetick Colatitude, and SN is the distance of the Magnetick Pole, from the Pole of the Earth.

Now suppose I was at Amsterdam, and should observe and find it in the Latitude of





of 52 d. 40 m. and should find the Inclination or Magnetick Latitude 74 d. 22 m. and in the Caroline Table, the Magnetick Co-latitude to be 29 d. 16 m. And the Magnetick Pole distant from the Pole of the Earth 8 d. 30 m. So that by the following Work, I find the Angle of the Pole of the Earth to be 16 d. 30 m. then we are to substract 6 d. oo m. as in the case of Ballafore, that the Magnetick Meridian (as Mr. Bond faith) is gone to the Eastward, and there remains 10 d. 30 m. for the difference of Longitude betwen London and Amfterdam : Whereas in Mr. Bonds Tables of Longitude he makes but 4 d. 37 m. Longitude Eastward of the Meridian of London, which being substracted out of 10 d. 30 d. there remains 5 d. 53 m. over and above the difference of Longitude between London and Amsterdam : So that the inclination of the Inclinatory Needle, with his Co-latitude, is not in proportion to the Meridian of London, or any certain Meridian of the Earth.

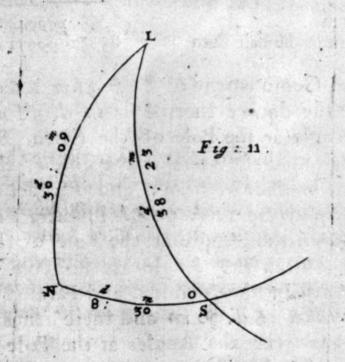
LN.

Assurece

	d. m.
EN,	29 16
S N, the residuum Sine	08 30 083029
SL, the residuum Sine.	37 20 021720
The Sum of the fides	75 06
The Sine the half Sum	37 33 978494
The Side of opposite substract	29 16
The Sine of the difference	08 17 915856
The Sum	1999099
The Sine of the half Sum	81 45 999549

The Complement of 81 d. 45 m. is 8. d. 15 m. the double thereof is 16 d. 30 m. for the Angle at the Pole of the Earth; and we are further to prove, that the inclination of the Inclinatory Needle with his Co-latitude at Amsterdam and Antwerp do alter the Angles at the Pole, although these two places are under one and the same Meridian of the Earth, when according unto truth the Angles at the Pole of the Earth should be the same, when you are under one and the same Meridian of the Earth.

Antwerp Latitude 51 d. 37 m. No the Magnetick Latitude, or Inclination 73 d. 48 m. No the Magnetick Co-latitude in the Caroline Table 30 d. 09 m. the diffance of the Magnetick Pole, from the Pole of the Earth 08 d. 30 m. to find the Angle at the Pole of the Earth.



IN,

rde fr d. 37 m. No. de	30 09
SN, the residuum Sine SL, the residuum Sine	38 23 020696 08 30 083029
The Sum of the Sides The Sine of the half Sum The Side opposite substract The Sine of the difference	77 02 38 31 979430 30 09 08 22 916288
The Sum- The Sine of the half Sum	1999443

The Complement of 83 d. 31 m. is 6 d. 29 m. the double thereof is 12 d. 58 m. the Angle at the Pole of the Earth. So having found the Angle at the Pole of the Earth, in the Meridian and Parallel of Antwerp to be 12 d. 58 m. I substract 12 d. 58 m. the Angle at the Pole of the Earth, from the Angle at the Pole of the Earth in the Meridian and Parallel of Amsterdam 16 d. 30 m. and there remains 3 d. 32 m. that the Angles at the Pole of of the Earth differ under one and the same Meridian of the Earth. For as all places under one and the same Parallel of the Earth, are in one and the same Latitude,

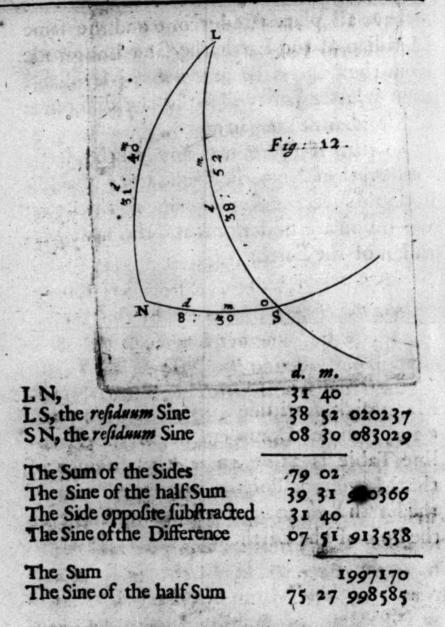
fo have all places under one and the same Meridian of the Earth, the same Longitude from the Azores, or any other Meridian, from whence you will make the difference of Meridians to begin at.

So that if there was any truth in the Observation, from the Inclinatory Needle, it should give the Angles alike at the Pole; when you are under one and the same Meridian of the Earth.

Portsmouth Latitude 51 d. 08 m. N°. the Magnetick Latitude, or inclination 72 d. 52 m. whose Complement in the Caroline Table is 31 d. 40 m. the distance of the Magnetick Poles, from the Poles of the Earth 8 d. 30 m. to find the Angle at the Pole of the Earth.

Buy Francis

Figure Adams and the second second



The Complement of 75 d. 27, m. is 14 d. 33 m. the double thereof is 29 d. 6 m. the

the Angle at the Pole of the Earth, so the Angle at the Pole of the Earth is found to be 29 d. 6 m. So I add 4 d. 12 m. as in the Case of Cape Charles. Portsmonth being West of the Meridian of London, and it gives me 33 d. 18 m. the difference of Longitude between the Meridian of London, and Portsmonth. And Mr. Bond makes but 01 d. 00 m. for the difference of their Meridians. See his Tables.

Laftly, we may observe from Mr. Bonds Observation taken in London by the Inclinatory Needle, whether London be the Meridian, from whence the Magnetical Latitude or Inclination, with the Co-latitude in the Caroline Table, and the Co-laritude of Landon, with the distance of the Magnetick Pole, from the Pole of the Earth, will give London to be the Meridian, from whence the Magnetick Co-latitude, with the other proportions, shall give the Angle at the Pole of the Earth, to be 6 d. 00 m. that the Magnetick Pole is from the Meridian of London Eastwards, as Mr. Bonds saith in the case of Ballasore. But if the Angle appear to be more or less

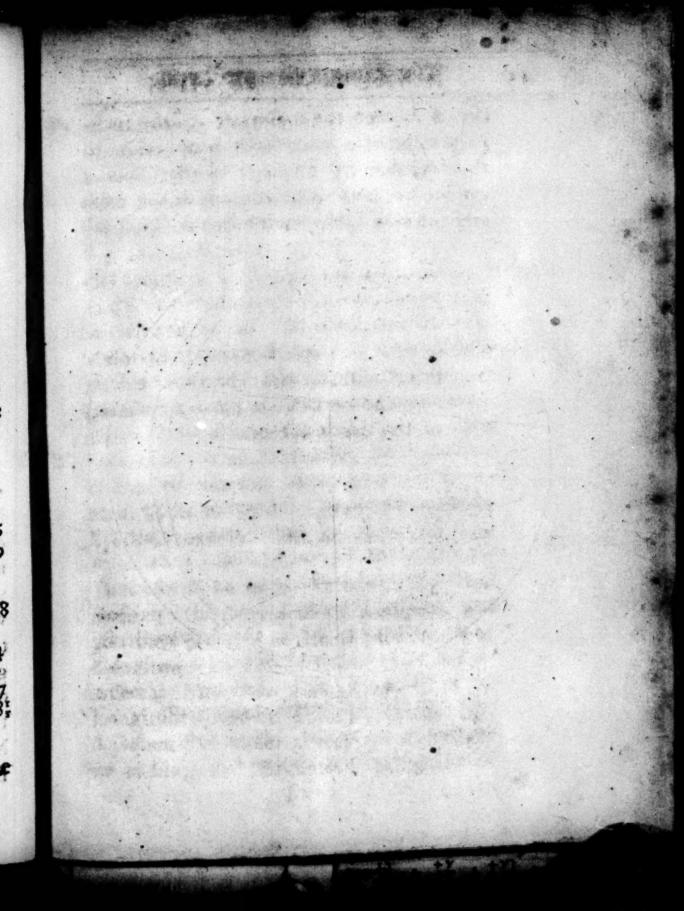
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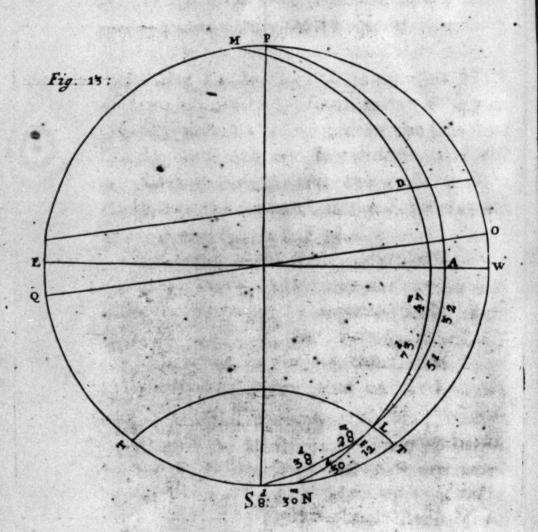
shan 6 d then the Inglination of the Inclinatory Needle, is not in proportion to the Meridian of London; so that London canuot be said to be the Meridian, from whence Longitude shall begin at

London Latitude 51 d, 32 m, the Magnetick Latitude or Inclination 73 d 47 m. the Magnetick Co-latitude in the Caroline Table 30 d. 11 m, the distance of the Magnetick Pole, from the Pole of the Earth 8 d 30 m to find the Angle at the Pole of the Earth 1. S.N.

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ation, with the Co. AN	1 400% to shirt
errica de la consecución la la consecución la consecución de la co	man Cerosin
SL, the residuum Sine of NS, the residuum Sine of	38 28 020616
NS, the relianum Sine of	08 30 083029
com the Pole of the Farely	retick Poler
The Sum of the Sides	77 09 VIN 11
The half Sum, the Sine	38 341 979478
The Side opposite substract	30 11 9545647
The Sine of the difference of the	08 23 916374
The Sum or distal ods to s	ele ar the Po
The Sum	1999497
The Sine of the half Sum	83 51 999748;
se siscorie nobeto to	distribution of the

Mr. Bonde lated in the case of Ballafere.





the inclinatory Needle at London, to be

The Complement of 83 di gam. is 6 d. 09 mi the double thereof is 12 d. 18 mi the Angle at the Role of the Earth L'S N.

Here place the thirteenth Figure.

neuck Pole, from the Pole of the Earth, So is L. Ny the Magnetick Collatitude 20 d. rrm. and L 9 is the Co-latitude of London 18 d 28 m and S N, is the Magnetick Pole distant from the Pole of the Easth 8 da 30 wi for that the Attgle at the Pole of the Earth LSN; is found to be ra d. 18 m. in the Mendin and Parallel of Landon, when falltrate to an elow. from ra d. 18 marais in the case of Ballafore. That Mr. Bond fuith the Magnetick Pole is from the Meridian of London; and you have 6 do 18 m. for the difference of Longitude in the Mendian of London; whereas Mr. Bond faith London has no Longitude: See his Tables. So that Mr. Bond must be under a very great mistake in making the Magnetick Inclination of the

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the Inclinatory Needle at London, to be in proportion, unto the Meridian of London, from whence Longitude shall begin at. When according to his own Observation by the Inclinatory Needle in London, with the Magnetical Colatitude in the Caroline Table, and the Co-latitude of London, and the distance of the Magnetick Pole, from the Pole of the Earth, London should have Longitude 6 d. 18 m. having given the Allowance Mr. Bond requires, as in the case of Bollafore.

The truth is the Inclination of the Inclinatory Needle, is not in proportion unto the Meridian of London, or any certain Meridian of the Earth, whereby the difference of the Meridians may be known by the Inclination of the Inclinatory Needle.

To sum up all; Mr. Bond pretends to find, what the Magnerick Meridian is gone to the Eastward, as in the case of Ballafore, by saying let the Angle WPN be
6 d. oo m. that the Magnetick Pole is from the Meridian of London. Whereas

the

portions of the Sides and Angles, contained in the Angles P. B.N., is 37 d. 59 m. and not 6 d. 00 m. that the Magnetick Pole is gone to the Eastward of the Meridian of London. And the Angle WPB is 87 d. 13 m. and not 119 d. 12 m. by Journal.

Likewise it is proved, that all places in one and the same Meridian of the Earth, do alter their Angles at the Pole, from the Observations of the Inclinatory Needle, when according to truth all places, under one and the same Meridian of the Earth, should make one and the same Angle at the Pole, otherwise the difference of Meridians cannot be found.

Likewise it is proved from several places near unto the Meridian of London, and in the Meridian of London, that the Angles at the Pole of the Earth, is no way in proportion unto the Meridian of London, or that London is the Meridian from whence Longitude shall take its beginning in proportion to the Inclination of the Inclinatory Needle. So that the Inclination of the Inclination of the

clinatory Needle is no way in proportion unto any certain Meridian of the Earth, from whence all Meridians should take their Distance.

For these Reasons the Longitude cannot be found by the Inclinatory Needle.

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Obtervations of the Inclinatory Newlinder Whenlinstony Newling when according to truth all places, under the and the fame Meridian of the fame of the

should make one and the fame Arriche the Pole, others dethe difference of the ridians cannot be found.

Likewise it is proved from the end of an asset to a self-the end in the Median of the Median of the Median of the Median of the Portron of the Median of the

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Here follow Mr. Bonds Caroline Tables of the Complements of the Magnilatitudes to every Five Miuntes of Inclination of the Inclinatory Needle, from the Magnequator unto 84 d or m. of Magnilatitude, and 87 d. 00 m. of Inclination.

KOKOKOKOKO KO KEKOKOKOKO

d. m.   d. m.	d. m.   d. m.	d. m. d. m.
0 05 89 58	2 35 88 43	5 05 87 27
0 10 89 55	2 40 88 40	5 10 87 25
0 15 89 53	2 45 88 38	5 15 87 22
0 20 89 50	2 50 88 35	5 20 87 20
0 25 89 48	2 50 88 35 2 55 88 32	5 25 87 17
0 30 89 45	2 00 88 30	5 30 87 15
0 35 89 42	- 100 01	5 35 87 12
0 40 89 40	2 10 88 25	5 40 87 10
0 45 89 38	3 15 88 22	5 45 87 07
0 50 89 35	3 20 83 20	5 50 87 05
0 55 89 33	3 25 88 18	5 55 87 03
1 00 89 30	2 30 88 15	6 00 87 00
1 05 89 28	3 35 88 13	6 05 86 57
1 10 89 25		6 10 86 55
1 15 89 23	3 40 88 10	6 15 86 52
1 20 89 20	3 30 88 05	6 20 86 50
1 25 89 18	3 35 00 03	6 25 86 47
1 30 89 15	4 00 88 00	6 30 86 45
1 35 89 13	4 05 87 57	6 35 86 42
1 40 89 10	4 10 87 55	6 40 86 40
1 45 89 08	4 15 87 53	6 45 80 37
1 50 89 05	4 20 87 50	6 50 86 35
1 55 89 03	4 25 87 48	6 50 86 35 6 55 86 32 7 00 86 29
2 00 89 00		7 00 86 29
2 05 88 58		
2 10 88 55	4 40 87 40	7 10 86 24
2 15 88 53	1 4 45 87 27	7 15 86 21
2 20 88 50	4 50 87 35	7 20 86 19
2 25 88 48	4 55 87 32	7 25 00 40
2 30 88 45	4 50 87 35 4 55 87 32 4 00 87 30	7 03 86 14
- 3-1 17		

A STORY OF THE RESIDENCE	CHECKER STREET		remove our religion in the contract of	Control of the Contro	ROBERT STREET,
d. m.	d. m.	d. m.]	d. m.	d. m.	d. m.
	6 11	10 05	84 55	12 35	83 38
	6 09	10 10	84 53	12 40	
7 45 8	6 06		84 50	12 45	83 32
7 50 8	86 04	10 20		12 50	83 30
WE SHOW A DECISION OF	36 al	10 25		12 55	
7 55 8	35 59		84 42	13 00	83 25
8 05	85 56	CLESS THAT SHEET SHOT CHEST COUNTY	84 40	13 05	
8 10	85 54	10 40		13. 10	
8 15	85 51	10 45	CONTRACTOR AND A SECOND CO.	13 15	83 17
8 20	85 49	10 50		13 20	83 14
	85 46	10 55	THE RESERVE AND ADDRESS OF THE PARTY OF THE	13: 25	83 12
8 30	85 44		84 27	13 30	83 09
8 35	85 41		84 24	13 35	83 07
	85 39	ED ESTOCIONES DO DO DESCRIPTO	84 22	13 40	83 04
8 45	85 36		84 19	13. 45	83 02
8 50	85 34	11 20		13 50	82 59
9 55	85 31		84 14	13 55	82 56
9 00	85 29		84 12	14 00	82 54
9 05			84 09	14 0	82 51
	85 23		84 06	14 10	82 48
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9 20			84 01	14 20	82 43
9 25	85 16		83 58	14 2	82 41
9 30		12 00	83 56	14 3	82 38
9 35	85, 10	12 0	83 53	14 3	82 35
9 40	1 8 0	12 10	83. 51	14 4	82 33
9 45			1 83 48	14 4	5 82 30
9 50		12 2	0 83 46	14 5	0 82 27
9 59	85 01	12 2	5 83 43		5 82 25
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d.	m.	d.	20.	1	m.	\ d.	m.	d.	m.	d.	m.
15	05	82	20	17	35	81	00	20	05	79	38
15	10	82	17	17	40	80	57	FOR PERMITTANES	CANADA DE LA	79	DANSEL CO.
15	15	83	14	17	45		54	20	15	79	33
15	20	83	12	17	50		52	20	20	19 10 10 10 10 10 10 10 10 10 10 10 10 10	30
		82	09	17	55		49	20	25	79	28
15	30	82	06	18	00	80	46	20	30	79	25
15	35	82	04	18	05	80	44	20	35	79	22
15	40	82	01	118	10	80	41	20	40	79	19
		81	58	18	15	80	38	20	45	79	16
		18	56	18	20	80	35	20	50	79	14
		18	53	18	25	80	33	20	55	79	11
	\$5000000	81	50		30	80	30	21	00	79	08
	10.00	81	48	18	35	80	27	21	05	79	05
A STATE OF THE PARTY OF THE PAR	THE CHIEFUS	81	45	18	40	80	25	21	to	79	03
	42, 13, 10, 11	81	43	18			22	21	15		00
	BOUNTON.	81	40	18			19	21			58
	NO. INVESTIGATION	81	37	18	55	80	17	21	25	78	55
	100,000,000	81	35	19		80		21	30		52
The second second	35	STATE OF THE PARTY.	32	119			II	21	35	78	
		81	29	19	10	80	08	21	TO SHARE THE REAL PROPERTY.	78	45
16			26	19			06	21	45	78	
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11.20-25-30.23	05	18	16	119	35	79		March 1997	05	78	32
	-0. WEST	18	13	19			52	22	10	78	29
		18	IO	19	45	79	49		15	78	26
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A 6 TO 10 TO	20.00	18	05	19		79	44	22		78	21
17	30	81	031	110	00	79	41	22	30	70	18

d. m.	d. m.	d. m.	d. m.	d. m.	d. m.
	78 15	25 05	76 50	27 35	75 22
	78 12	25 10	76 47	27 40	75 19
	78 10	25 15	76 44	27 45	75 16
22 50	78 07	25 20	76 41	27 50	75 13
22 55	78 04	25 25	76 38	27 55	75 10
23 00	78 01	25 30	76 35	28 00	75 07
23 05	77 58	25 35	76 32	28 05	75 04
//SUBSECTION LIST TO THE PROPERTY OF THE PROPE	77 55	25 40		28 10	
23 15	77 53	25 45	76 26	28 15	74 58
23 20	PERCENTAGE PROFESSION OF THE PERCENTAGE PROFE	25 50	76 24	28 20	74 55
23 25	77 47	25 55		28 25	74 52
23 30	77 44	26 00	THE RESPONDED AND DESCRIPTION OF THE PARTY O	28 30	SECTION OF STREET
23 35	77 4I	26 05		28 35	
	77 39	26 10		28 40	N. BARREN LEGISLANIA
23 45	77 36	26 15	THE RESIDENCE OF THE PARTY OF T	28 45	
23 50	TO AND AND RESIDENCE PARTY.	26 20	200 EXTENSION - 12205 AUG		74 36
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24 05				29 05	DE BACK MANAGEMENT
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24 15	77 18	26 50		29 15	AND THE STATE OF THE PARTY OF T
24 25		26 55	75 45	29 20	
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A Table of the Latitude, Longitude, and the Inclination of the Inclinatory Magnetical Needle, in some of the most eminent Places of the World, in 1676.

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rence,	(Inclination	39 10	South.
The Cape of Good Hope,	(Latitude	35 30	South.
Good II	\Longitude	27 30	East.
Good Hope,	(Inclination	47 38	South.
Mark E	(Latitude	16 03	South.
St. Elena,	<b>Longitude</b>	04 44	East.
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Cape de Verd,	Langitude 14 25 Longitude 12 21 Inclination 58 28	North. West. North.
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Gibralter,

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Malago,	Latitude 36 45 Longitude 02 17 Inclination 63 33	North. West. North.
Alegant,	Latitude 38 20 Longitude 0 1 50 Inclination 65 10	East.
Leagorn,	Latitude 43 28 Longitude 12 39 Inclination 68 01	North. East. North.
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	(Latitude 125 08 North
Midale of Can-	Congitude 28 33 Eaft.
ara ,	Longitude 28 33 Eaft. Inclination 60 29 North
10 m	(Latitude 4205 North
Middle of Cor	Congitude 11 43 Eaft.
Jica,	Longitude 11 43 East. Inclination 67 08 North
Milan .ce.	(Latitude 27 42 North
Glia	Longitude 16 45 Eaft.
June 9	Latitude 37 42 North Longitude 16 45 East. Inclination 63 26 North
America Co.	(Latitude 20 28 North
Maiyork,	Longitude of 48 Eaft.
Lateria Try	Latitude 39 38 North Longitude 05 48 East. Inclination 65 32 North
. 10/12 6 2	(Latitude a6 22 North
Cakes,	Latitude 36 22 North
40.00	(Inclination 63 16 North

	d. m.	
	(Latitude 39 08	North.
Lisbon.	Longitude 06 30	Weft.
	Latitude 39 08 Longitude 06 30 Inclination 65 28	North.
	(Latitude 43 10	North.
Cape Finister.	Longitude 08 19	West.
49.9	Latitude 43 10 Longitude 08 19 (Inclination 69 07	North.
	(Latitude 45 10	North.
Burdeaux,	Longitude 00 20	East.
Bart Pyr	Longitude 00 20 Inclination 69 26	North.
Administration	(Latitude 46 17	North.
Rochell,	Longitude 00 30	West.
almold size	Latitude 46 17 Longitude 00 30 Inclination 70 27	North.
	(Latitude 47 41	North.
Nants .	Latitude 47 41 Longitude 01 09	West.
wined to	Unclination 71 27	North.
.100 14 . 1 1	(Latitude 40 20	North.
Jarsey,	Latitude 49 30	West.
March 8	Unclination 7 1 34	North.

	d. m.
Garnzey,	Latitude 49 43 North- Longitude 02 35 West. Inclination 72 41 North.
Callice,	Statitude 51 13 North. Longitude 01 52 East. Inclination 73 34
Antwerp.	Latitude 51 37 North. Longitude 04 37 Eaft. Inclination 73 48 North.
Amsterdam,	Latitude 52 40 North. Longitude 04 37 East. Inclination 74 22 North.
Hamborough,	SLatitude 54 04 North. Longitude 08 02 East. Inclination 75 05 North.
Copenhagen,	Latitude 56 17 North. Longitude 09 54 East. Inclination 76 18 North.

Scarlet

(Latitude 56 40 North. Elsenore, Longitude 09 57 East. ... Inclination 76 33 North. Gotland, Longitude 15 58 East. (Inclination 77 14 North. Cape Blanco , (Latitude 51 32 North. inNew-found & Longitude 51 00 West. Land, (Inclination 72 24 North. Trinity Bay, Latitude 55 54 North. Longitude 54 28 West. Inclination 70 32 North. In the Sound. (Latitude 5858 North. Longitude 21 06 East. Shorbam, (Inclination 77 48 (Latitude 58 49 North. Longitude 14 42 East. Inclination 77 42 North. Stockholm,

d. m.

Scarlet Hand, Longitude 10 38 East. Inclination 76 31 North.

Long Sound, Longitude 07 30 East. Inclination 77 28 North.

Naze of Nor- Longitude 05 00 East.

way, Inclination 77 29 North.

Cars Ness, Latitude 61 54 North.

Longitude 02 42 East.

Inclination 79 43 North.

North Cape of Latitude 71 22 North.

Longitude 16 42 East.

Inclination 84 09 North.

Archangel, Longitude 21 22 East. Inclination 79 27 North.

Cape Blanco , (Latitude 37 32 North. inNew-found Longitude 39 36 West. Land, Inclination 72 24 North. Trinity Bay, Longitude 54 28 West. (Inclination 70 32 North. Cape Raza, Longitude 51 54 West. (Inclination 69 05 North. Cape Cod, in SLatitude 42 20 North-New England, SLatitude 66 56 West. Inclination 64 44 North. Larieude 43 38 North. Bofton, (Inclination 64 57 North. (Latitude 42 08 North. NewPlymonth, Longitude 68 or West. (Inclination 64 32 North.

Pish a hood

a. m.	d. m.	
	Longitude 70 00 (Inclination 60 00	
	SLatitude 36 00 Longitude 68 30 Inclination 59 26	
	SLatitude 23 20 Longitude 54 36 Inclination 57 41	
New Island of Providence,	Clatitude 25 25 Congitude 70 00 Cinclination 48 39	North, West.
Hispaniola,	Latitude 118 50 Longitude 70 22 Inclination 40 23	North. West.
Cuba,	Latitude 22 00 Longitude 81 20 Inclination 24 37	North.

de m.

d. m.

Barbados, Statitude 13 10 North. Statistics 13 10 North. Statistics 13 10 North. North.

Jamaica, Longitude 18 15 North.

Longitude 78 21 West.

Inclination 38 04 North.

Suranam, Longitude 55 16 West.

Inclination 23 01 North.

## drioM prop In Ireland!)

Dublin, Longitude 07 20 West.
Inclination 75 08 North.

Wexford, Longitude 07 08 West.

Unclination 74 31 North.

Waterford, Longitude 07 48 West. Inclination 74 30 North.

d. m.

	u. m.	
Cork :	Longitude 08 20	North. West.
34 at Morio.	(Inclination 73 32	North.
	(Latitude 51 52	North.
Kings Sail,	Latitude 51 52 Longitude 08 32 Inclination 74 07	North.
Old Head of	Latitude 51 40 Longitude 08 38 Inclination 74 00	North. West.
tings Saus	(Inclination 74 00	North.
13 32 Longh	SLatitude 52 15 Longitude 11 35 Inclination 74 22	North. West.
Lymbrick,	Latitude 5304 Longitude 10 15 Inclination 74 51	North. West. North.
Galloway,	Latitude 53 40 Longitude 10 40 Inclination 75 13	North.
A 30 North.	(Inclination 7	<b>7</b>

## In Scotland.

	c almigned d. m. parall
Leith,	Latitude 56 03 North. Longitude 03 15 West. Inclination 76 33 North.
Aberdeen;	Latitude 57 42 North. Longitude 02 55 West. Inclination 77 18 North.
Isles of Orkney,	Latitude 58 50 North. Longitude 03 22 West. Inclination 77 35 North.
aing/i or g	In England.
Barwick,	Latitude 55 49 North. Longitude 02 45 West. Inclination 76 24 North.
Westebester,	Latitude 53 37 North. Longitude 04 20 West. Inclination 75 09 North.

Port wouth,

	d. m.	
Newcastle,	Latitude 54 58 Longitude 02 10 Inclination 75 53	North. West. North.
Glocester,	Latitude 52 03 Longitude 02 45 Inclination 74 15	North. West. North.
Briftol,	Latitude 51 32 Longitude 02 50 Inclination 73 51	North. West. North.
The Lands end,	Latitude 50 20 Longitude 05 58 Inclination 73 10	North. West. North.
The Lizard,	Latitude 50 10 Longitude 05 24 Inclination 73 02	North. West. North.
Plymouth,	(Latitude 50 36 Longitude 04 33 Inclination 73 17	North. West. North.

d. m. (Latitude 5108 North-

Portsmonth , Longitude or oo West.

(Inclination 7252 North.

Latitude 51 25 North.

(Inclination 73 41 North.

London, Longitude 00 00

(Inclination 73 47 North.

To prove the Earth the Centure of the Starry Heaven, and not to have any Inclinationtowards the Poles, as Copernicus would have it.

The Earth by observation keeps its Parallels with the Starry Heaven all the year, without alteration; for by observation, that Star that is in the Equinoctial part of the Heaven, is always in the Equinoctial part of the Earth; so likewise, take all the Stars in their several Parallels to the Poles from the Equinoctial, and you will find they keep their Parallels with the Earth for ever.

We need not go to the Equinoctial part of the

Earth, to prove the Earth to keep her Parallels with the Equinoctial part of the Starry Heaven: For, observe in this Parallel or Latitude of London 51 d. 30 m. the Amplitude of any Star in the Equinoctial, either upon his Rising or Setting, and you shal find his Amplitude to be East or West of you for ever, in this Parallel or any other.

the land out ton.

Likewise observe the Meridian Altitude of any Star in the Equinoctial, in this Parallel or Latitude 51 d. 30 m. and you shall find his Meridian Altitude to be the Elevation of the Equinoctial for

ever, in this Parallel or Latitude.

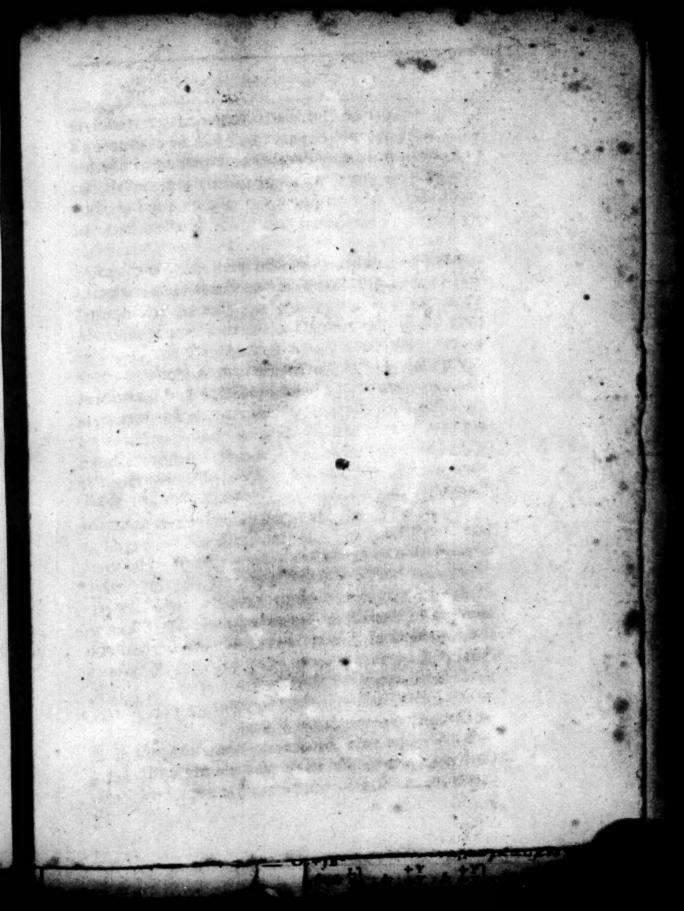
And by daily observations we find the Sun to alter his Amplitude, and Meridian Altitudes, and Parallels with the Starry Heaven and Earth. And we find the Starry Heaven to keep his Parallels with the Earth always, in regard the Stars keep their Meridian Altitudes and Amplitudes with the

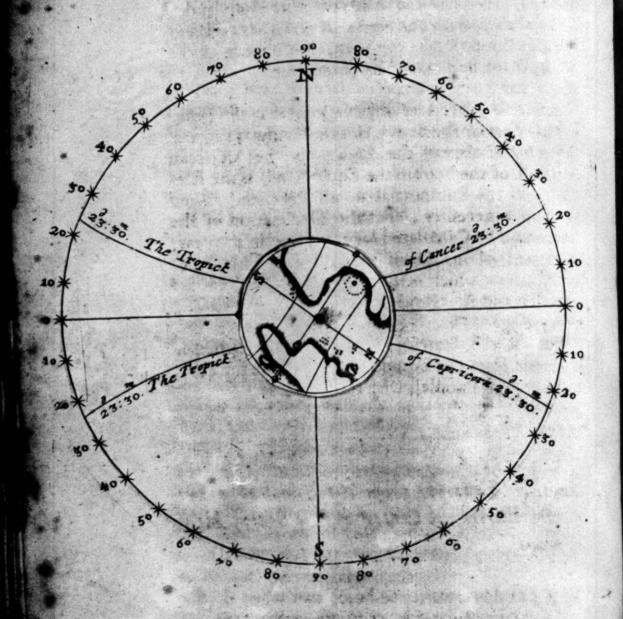
Earth, without alteration.

March.

But if we should admit the Sun the Center of the Starry Heaven, and the Earth should have her Declination towards her Poles; then the Sun must be always in the Equinoctial part of the Starry Heaven; and the Sun must have the same Amplitudes, and Meridian Altitudes, with the Stars in the Equinoctial; in all Parallels: And then the Sun, and all the Stars in Heaven, should have a daily Calculation of the Declination of the Earth, as the Earth shall after her Parallels, by Inclining or Declining towards her Poles.

But it is proved by observation, that the Sun doth not keep his Parallels with the Starry Heaven, therefore the Sun cannot be the Center of the Star-





Equinoctial part of that Heaven, and the Sun hath not the same Meridian Altitude, and Amplitude, and Parallel, with the Starry Heaven in the Equinoctial, but twice in the year, and that is as the Sun Inclines and Declines from one Tropick to another.

And it is proved by observation, that the Equinoctial part of the Starry Heaven is always in the Equinoctial part of the Earth, for the Meridian Altitude of the Stars in the Equinoctial, is the Elevation of the Equinoctial in all Parallels. Now there is a necessity, that the Declination of the Sunshould be Calculated for every day in the year, in regard of his Declination towards his Pole, 23 d. 30 m. which is the cause the Sun alters his Parallels and Amplitudes, and Meridian Altitudes, every day.

But for the Starry Heaven, its Declination or Distance from the Equinoctial is the same for ever,

and keeps it Parallels with the Earth.

Another Example from the Sun, to prove the Earth the Center of the Starry Heaven.

Oft Mathematicians hold, that when the Sun is depressed below the Horizon 15 Degrees, that Twylight appears upon the Horizon; the proof

proof of which is very futable in this Parallel or Latitudes Exemple : London; Latitude 51 d. 20 m. North, the Suns Declination 23 d. 30 m. North, the Suns Depression 15 d. oo m. I demand the Time of Twylight? So by the Work you will find the Sun Depressed 15 Degrees at Midnight the 11th. day of June, so that you will have Twylight appear in the North all Night: At which time we find by Observation in the Equinoctial, & in this Parallel the Sun to be diftant from the North Pole 66.4.30 m. Now if the Sun was the Center of the Starry Heaven, the Sun would be always distant from the Poles 90 Degrees, as the Stars in the Equinoctial are, and as the Sun is the Ioth. day of March, or the 10th. day of september, when he is in the Equinoctial. 20 mb which is the

Much more may be faid; but supposing here's enough to prove the Earth the Center of the Starry Heaven: And I am certain there's no Observato be made from Heaven, to prove the Earth hath any Motion at all additional triangles book and the start of the s

The Terrestrial Sphere that is moveable, shews, that if the Earth should move (as Copernicus would have it) then there is a necessity the Earth should alter her Parallels with the Starry Heaven: For if you move the Equinoctial part of the Earth upon its Polar Line to either Tropick, it shows you to alter 23 d. 30 m. of your Parallel from the Equinoctial part of the Starry Heaven.

Of Mathematicians hold, that when the Sun

that Twylight appears upon the Harizons the

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